

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
**WO 2005/006474 A1**

(51) International Patent Classification<sup>7</sup>: **H01M 8/02**

(21) International Application Number:  
PCT/KR2003/002571

(22) International Filing Date:  
26 November 2003 (26.11.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:  
10-2003-0047980 14 July 2003 (14.07.2003) KR

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(81) Designated States (national): JP, RU, US.

Declaration under Rule 4.17:

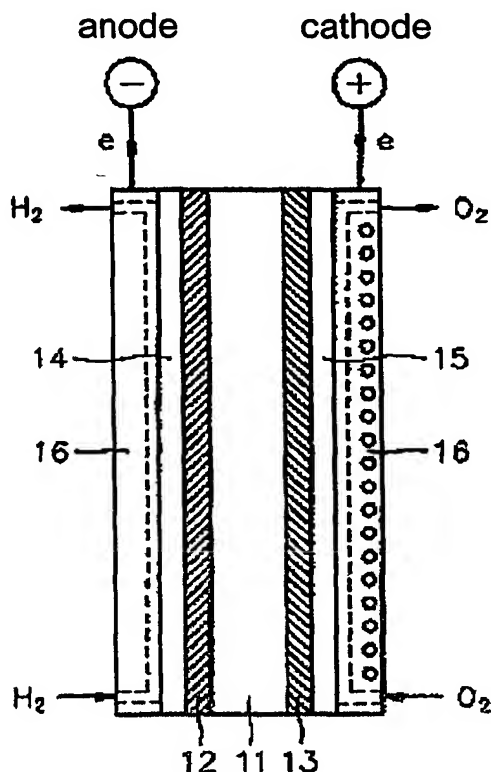
— as to non-prejudicial disclosures or exceptions to lack of  
novelty (Rule 4.17(v)) for all designations

Published:

— with international search report  
— with a declaration as to non-prejudicial disclosures or ex-  
ceptions to lack of novelty

[Continued on next page]

(54) Title: HIGH TEMPERATURE PROTON EXCHANGE MEMBRANE USING IONOMER/SOILD PROTON CONDUCTOR,  
PREPARATION METHOD THEREOF AND FUEL CELL CONTAINING THE SAME



(57) Abstract: The present invention relates to a high temperature proton-conducting polymer membrane, a preparation method thereof, a membrane-electrode assembly using the same and a fuel cell containing the same. More particularly, it relates to a proton-conducting polymer membrane enabling fuel cell operation under high temperature and normal pressure condition, wherein sulfoalkyl or sulfoaryl groups are introduced between layers of metal phosphate and cation exchange groups are present in side chains, a preparation method thereof and a membrane-electrode assembly using the proton exchange membrane and a fuel cell containing the same.



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